

**CITY OF SUNNYVALE
PUBLIC WORKS DEPARTMENT/ENGINEERING DIVISION**

ABANDONMENT NOTES:

SEWERS:

1. Abandon in-place any un-used existing sanitary sewer lateral pipe from back of the curb to the sewer main.
2. Any existing pipe occupying the same trench that will be used by a new line must be removed and cannot be abandoned in place.
3. Any pipe to be abandoned, main line or service lateral, is to be separated to create a minimum of three feet separation from the nearest active main line segment.
4. In the event of a service lateral disconnection from an active main, or an inactive main disconnection from an active main in the absence of a manhole, the active main shall be repaired as follows:
 - (a) If the original lateral connection was made with a factory "wye", then the "wye" is intact and undamaged shall be sealed appropriately to prevent material or water intrusion.
 - (b) If the original lateral connection was made in any other fashion besides a factory "wye" or the factory "wye" is damaged, then the active sewer main section shall be replaced to eliminate the existing connection point in order to adequately seal the main.
 - (c) The main section to be replaced shall extend to the **nearest factory pipe "bell" or joint** as applicable.
5. Fill abandoned pipe with backfill material: sand, or controlled density fill (CDF) such as flowable fill, controlled low-strength material (CLSM), flowable mortar, plastic soil-cement, soil-cement slurry, or K-Krete. CDF must have unconfined compressive strength of 100 psi or less to allow for future excavation of the area.
6. If sand is used to fill abandoned pipe, securely close each pipe end by installing a watertight plug of concrete, controlled density fill (CDF), controlled low-strength material (CLSM), flowable mortar, plastic soil-cement, soil-cement slurry, or K-Krete not less than two feet in length.
7. Pipes to be abandoned that are non-continuous or broken by construction activity are to be repaired sufficiently to contain the selected abandonment backfill material. If such repairs are impractical or infeasible, the pipe(s) shall be removed and disposed.
8. Seal un-used pipe(s) at the back of the curb per Green Book section 306-5 or to the city's satisfaction.
9. Un-used pipes between the curb and the right-of-way are to be removed and disposed (not abandoned in place).

WATER LINES:

1. For service lines less than 4" diameter:
 - (d) Contractor shall pothole, cut out at the main, remove the corporation stop and saddle, and install a minimum 12" full circle 316 stainless steel repair clamp with 316 accessories over the hole.
 - (e) Abandon unused existing water service lines in place at least 18" below grade to the city's satisfaction.
2. For service lines 4" and larger in diameter:
 - (a) Contractor shall pothole, cut out "t" at the main and replace with class 52 DIP or C900 class 200 with two solid fusion epoxy coated DIP sleeves with Tripac, flouropolymer coated accessories.
 - (b) Abandon unused existing water service lines in place at least 18" below grade to the city's satisfaction.
 - (c) The entire pipeline to be abandoned shall be filled with CLSM or other concrete mix sufficiently workable for the purposes intended.

3. Pipelines to be abandoned shall be removed to create a minimum of a three foot separation from the live portion of the line for pipes 4" and larger in diameter, and securely closed at the pipe ends by installing a watertight plug of concrete not less than one foot thick. Contact city Environmental Department in writing 48 hours in advance, to check the condition of the existing services prior to abandonment.

GENERAL:

1. Salvage and arrange the existing facilities (i.e., meters, valves, manhole covers, manhole frames, etc.) to be picked up by the City's Environmental Services Department by prior arrangement.
2. Properly remove or abandon in place unused existing City utility service lines discovered that were left in place by others.
3. Contact utility companies for removal, abandonment, adjustment or relocation of their facilities.
4. See demolition plans for removal of on-site improvements.
5. Contractor is responsible for verifying the location of any existing utilities.